DME SWITCH-MODE BATTERY CHARGERS

CURTIS

DESCRIPTION

The Curtis DME Switch-mode Chargers allow easy charging of electric vehicle batteries at any outlet. These chargers safely recover deeply discharged batteries as well as protecting from overcharging.

1604: 24V, 4A, sealed
1608FV: 24V, 8A, fan, vented
1608FS: 24V, 8A, fan, sealed

WARRANTY
Two Year Limited Warranty
(see terms of sale for specifics)

Application

The Curtis switch-mode battery chargers are ideal for charging Durable Medical Equipment and electric vehicles utilizing 24V power, such as scooters and wheel chairs.

Features

- Microprocessor control allows switch-mode operation for faster charging.
- Light weight and compact size offers space advantages over other chargers.
- All units feature Auto Voltage Select (AVS): One unit operates for 100VAC, 120VAC or 230VAC. Eliminates the need to service and stock multiple models.
- Power limit battery charging (using algorithm) depending on battery state of charge.
- 1604 will charge 60 A.h battery in 8 hours. 1608 will charge 100 A.h battery in 8 hours.
- Automatic shutoff and restart to compensate for battery self discharge.
- Reliable charging is achieved through a multi-stage programmable multi-mode charging algorithm.
- 1604 has natural convection/conduction cooling that eliminates the need for a fan. 1608 has forced air cooling with temperature regulation for long fan life.
- Thermal protection prevents damage from over temperature conditions.
- Input & output protected by fuse.
- Output current is limited so as not to exceed the maximum power and/or thermal capacity.
- Output is short circuit and reverse polarity protected.
- Suitable for lead acid or NiMH batteries.
- LEDs indicate AC Power ON, Charging Status and Fault Conditions.
- On-board/off-board interlock provided.
- Optional mounting kit (not shown).
- IP 54 electronics packaging on models 1604 & 1608FS. *(see note under Model Encodement)*
- Optional off board temperature sensing.

Model Encodement

1604	-	S	-	AVS	/	24	-	C	L	-	M	06	L
MODEL		**Sealing**		**Input Voltage**		**Output Voltage**		**Input Connector**	**Output Connector**		**Constant Voltage Level**	**Amp Hour Rate**	**Charger Present Inhibit**
4A Charger		S = (IP54)	-	100-240VAC		24 VDC		IEC320	L = DIN 3-pin		L = (28.0) M = (28.6) H = (29.2)	06 = 60 Ahrs	L = Low H = High

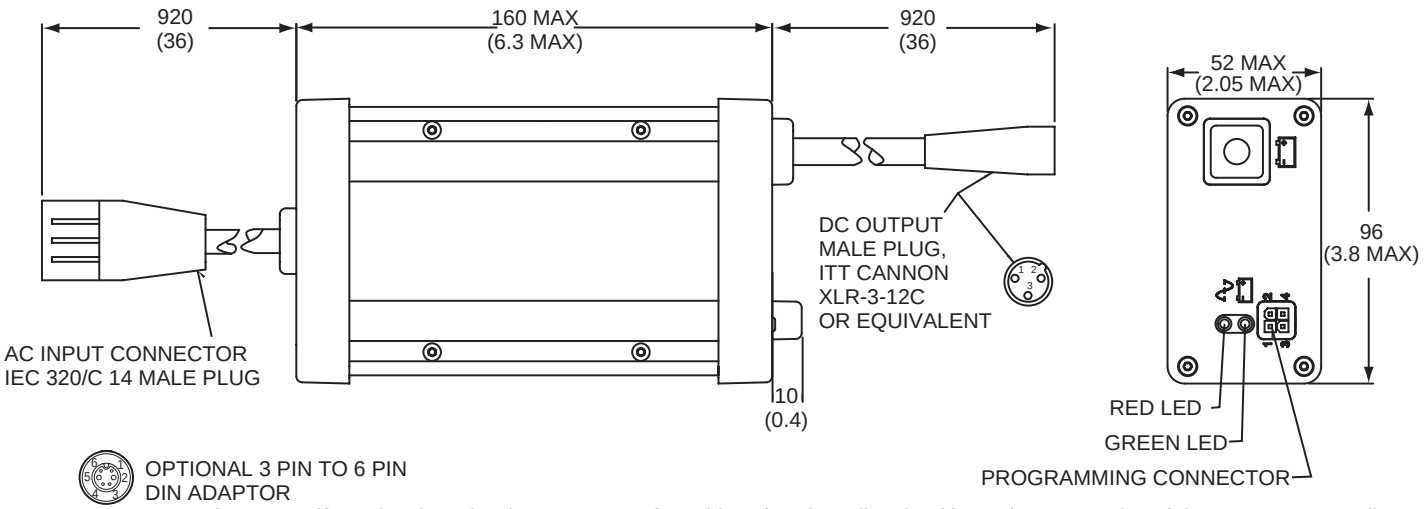
1608	F	S	-	AVS	/	24	-	C	L	-	M	10	L
MODEL		**Sealing**		**Input Voltage**		**Output Voltage**		**Input Connector**	**Output Connector**		**Constant Voltage Level**	**Amp Hour Rate**	**Charger Present Inhibit**
8A Charger		S = (IP54) V = (IP30) See Note	-	100-240VAC		24 VDC		IEC320	L = DIN 3-pin		L = (28.0) M = (28.6) H = (29.2)	10 = 100 Ahrs	L = Low H = High

Note: For Model 1608FS, the electronics are protected to IP54, the fan is protected to IP30.

Specifications

	1604		1608/1608S	
Input:	**@120V**	**@230V**	**@120V**	**@230V**
Voltage:	90-132 VAC	208-264 VAC	104-132 VAC	208-264 VAC
Frequency Range:	47-63 Hz	47-63 Hz	47-63Hz	47-63Hz
Input Current:	2.0 A-rms Max @ 60 Hz	1.0 A-rms Max @ 50 Hz	4.0 A-rms Max @ 60Hz	2.0 A-rms Max @ 50Hz
Input Leakage:	<500uA	<500uA	<500uA	<500uA
Output:				
Voltage:	12-30 VDC nominal		12-30 VDC nominal	
Current:	4.5 A Max		8.5 A Max	
Power Max:	125W		250W	
Power Nom:	100W		200W	

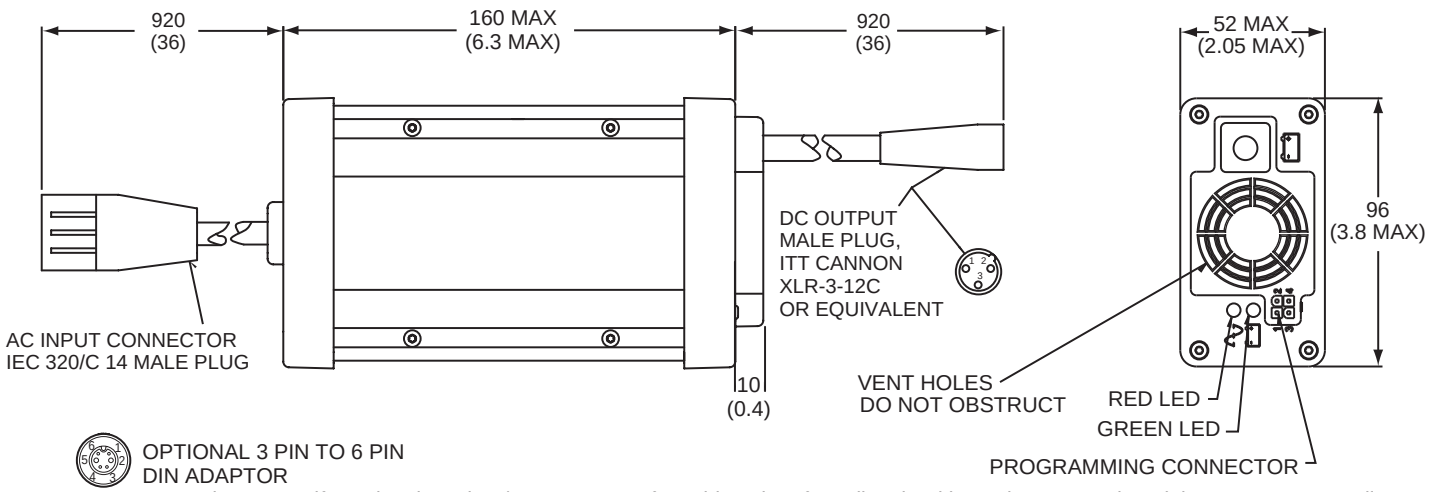
1604 Dimensions: mm (inches)



OPTIONAL 3 PIN TO 6 PIN
DIN ADAPTOR

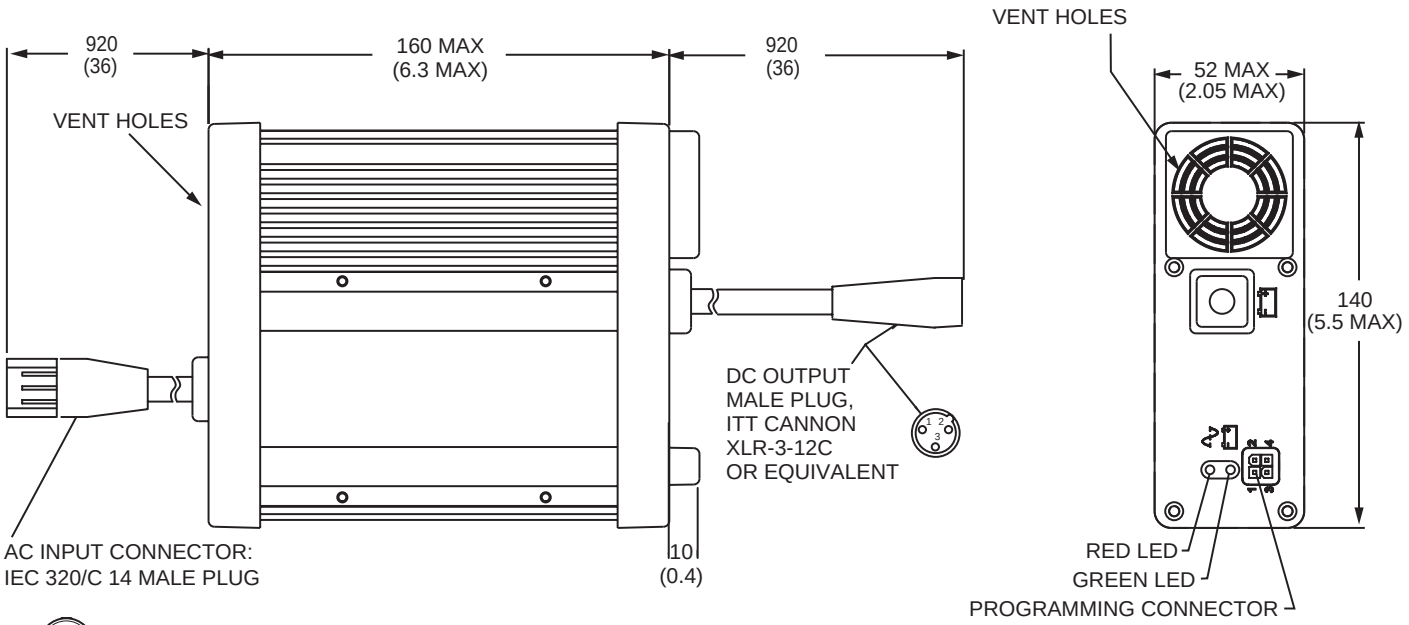
Note: Please specify Optional Curtis P/N 17604348-1 for cable to interface directly with Curtis MC-2 and Model 1288 motor controller.

1608FV Dimensions: mm (inches)



OPTIONAL 3 PIN TO 6 PIN
DIN ADAPTOR
Note: Please specify Optional Curtis P/N 17604348-1 for cable to interface directly with Curtis MC-2 and Model 1288 motor controller.

1608FS Dimensions: mm (inches)



OPTIONAL 3 PIN TO 6 PIN
DIN ADAPTOR
Note: Please specify Optional Curtis P/N 17604348-1 for cable to interface directly with Curtis MC-2 and Model 1288 motor controller.

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